



MORBIDITY AND MORTALITY WEEKLY REPORT

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Epidemiologic Notes and Reports**Tuberculosis, Final Data — United States, 1986**

In 1986, 22,768 cases of tuberculosis (9.4/100,000 U.S. population) were reported to CDC. These data represent an increase of 2.6% in the number of reported cases, or 567 more than the 22,201 cases reported in 1985 (9.3/100,000 population). If the trend of decline observed between 1981 and 1984 had continued through 1986, 4,832 fewer cases would have been expected during the period 1985-1986 than were actually reported.

The number of reported cases of tuberculosis increased in 25 states and the District of Columbia. The largest increases occurred in New York (+357), New Jersey (+179), Michigan (+75), Arkansas (+63), Florida (+53), and North Carolina (+53). The largest increases in cities with a population of 250,000 or more were reported from New York City (+380), Detroit (+74), New Orleans (+29), Memphis (+27), and Jacksonville (+23).

From 1985 to 1986, the number of tuberculosis cases increased for all racial/ethnic groups except American Indians/Alaskan Natives (Table 1). The largest increases occurred among blacks (+367) and white Hispanics (+123). The 25- to 44-year age group had the most substantial increase in cases (+558). In this group, cases among blacks increased by 250 (from 2,943 to 3,193), or 8.5%; cases among non-Hispanic whites increased by 164 (from 1,520 to 1,684), or 10.8%; and cases among white Hispanics, by 151 (from 1,123 to 1,274), or 13.4%. Increases occurred among both males and females and among persons born in the United States and in foreign countries.

Reported by: Div of Tuberculosis Control, Center for Prevention Svcs, CDC.

Editorial Note: From 1963 to 1985, the incidence rate of tuberculosis in the United States declined an average of 5.9% annually. The average annual decline from 1981 to 1984 was 1,706 cases (6.7%). In contrast, the decrease from 1984 to 1985 was 54 cases (0.2%) (1). 1986 marks the first occurrence of a substantial increase in indigenous tuberculosis morbidity since 1953, the year when uniform national reporting was fully implemented. Previously, increases in the number of cases reported had been due either to changes in reporting criteria (1963 and 1975) or to a sudden influx of refugees from Kampuchea, Laos, and Vietnam (1980).

The most substantial increases in number of cases from 1985 to 1986 occurred among blacks, non-Hispanic whites, and white Hispanics in the 25- to 44-year age

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group. In contrast, the number of reported tuberculosis cases among children under 5 years of age decreased substantially. This age-specific variation in tuberculosis morbidity indirectly suggests that the recent increase in tuberculosis may be the result of endogenous reactivation of latent, subclinical tuberculous infection rather than of increased transmission.

The increase was greater in New York City than in any other locality. For the past several years, New York City has reported a large increase in tuberculosis among 25- to 44-year-old males that has coincided with the epidemic of acquired immunodeficiency syndrome (AIDS) (2). Matching of AIDS and tuberculosis cases on citywide registries revealed that 5% (261) of the first 4,892 adult and adolescent patients reported as having AIDS also had tuberculosis. For the majority of New York City patients, diagnosis of tuberculosis preceded the diagnosis of AIDS. Furthermore, when 58 male patients with tuberculosis in the 25- to 44-year age group were tested,

TABLE 1. Changes in the number of reported tuberculosis cases and the incidence rates (per 100,000 population), by patients' age, race/ethnicity, sex, and country of origin — United States, 1985 and 1986

Patient Characteristics	Tuberculosis Cases					
	1985		1986		Change	
	No.	Rate	No.	Rate	No.	(%)
Age (years)						
0-4	789	4.4	724	4.0	-65	(-8.2)
5-14	472	1.4	490	1.4	+18	(+3.8)
15-24	1,672	4.2	1,719	4.4	+47	(+2.8)
25-44	6,758	9.2	7,316	9.6	+558	(+8.3)
45-64	6,138	13.7	6,119	13.6	-19	(-0.3)
≥65	6,356	22.3	6,393	21.9	+37	(+0.6)
Unknown	16	—	7	—	—	—
Race/Ethnicity						
White, Non-Hispanic	8,453	4.5	8,539	4.6 *	+86	(+1.0)
White, Hispanic	3,032	17.5 †	3,155	17.7 †	+123	(+4.1)
Black [‡]	7,719	26.7	8,086	27.6	+367	(+4.8)
Asian/Pacific Islander [§]	2,530	49.6	2,572	50.4 *	+42	(+1.7)
American Indian/ Alaskan Native	397	25.0	335	21.1 *	-62	(-15.6)
Unknown	70	—	81	—	—	—
Sex						
Male	14,496	12.5	14,835	12.6	+339	(+2.3)
Female	7,704	6.3	7,933	6.4	+229	(+3.0)
Unknown	1	—	0	—	—	—
Country of Origin[¶]						
United States	15,641	NA **	16,039	NA **	+398	(+2.5)
Puerto Rico	172	NA **	210	NA **	+38	(+22.1)
Foreign Countries	4,390	NA **	4,513	NA **	+123	(+2.8)
Total	22,201	9.3	22,768	9.4	+567	(+2.6)

*Based on 1985 population estimates.

†Based on total Hispanic population.

‡Includes Hispanics.

§Excludes cases among patients from Texas because that state did not report country of origin in 1985.

**NA = Not available.

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53% (31) were positive for human immunodeficiency virus (HIV) antibody (New York City Department of Health, unpublished data).

In Florida, 10% (109) of the first 1,094 patients reported as having AIDS also had tuberculosis (3). The proportion of known AIDS patients with tuberculosis was 2% among non-Hispanic whites, 7% among Hispanics, 15% among blacks (excluding Haitians), and 29% among Haitians (4). In Dade County, Florida, 31% of the consecutively tested patients with tuberculosis were HIV positive (5).

Available data reinforce previous *MMWR* reports (2,3) and suggest that the number of patients known to have both tuberculosis and AIDS may represent only a small proportion of the patients with tuberculosis who are infected with HIV. HIV infection, when acquired by a patient with latent tuberculous infection, seems to allow the progression to overt clinical tuberculosis. Thus, HIV infection may be largely responsible for the increase in tuberculosis in New York City and Florida. Epidemiologic investigations and HIV seroprevalence surveys among patients with tuberculosis will enable investigators to determine the full extent to which HIV is responsible for the increase in tuberculosis morbidity.

Because increases in tuberculosis were also observed among foreign-born persons, Asians/Pacific Islanders, and females, factors other than HIV infection probably contributed to the increased morbidity in 1986. As reported previously, Hispanics and Asians/Pacific Islanders recently arriving in the United States are at high risk for tuberculosis. The number of these patients in younger age groups suggests that many cases among these populations are potentially preventable (6,7).

To reverse the current trend of increasing tuberculosis morbidity, both a more aggressive search for cases and the use of preventive therapy among high-risk populations will be necessary. Although all persons with tuberculous infection should be offered preventive therapy according to current guidelines (8), immigrants and refugees who have recently arrived from areas with a high prevalence of tuberculosis (6) and persons with HIV infection (9) should receive special attention.

Because HIV infection appears to be a significant risk factor for developing tuberculosis, CDC has recommended that HIV-infected individuals be given a tuberculin skin test (9). Although some HIV-infected persons may be anergic, a positive test is meaningful. Because of the risk of developing tuberculosis, HIV-infected persons who have or have had a positive tuberculin skin test should receive preventive therapy with isoniazid after active tuberculosis has been ruled out, regardless of their age. All patients with risk factors for tuberculosis and AIDS should be routinely counseled and tested for HIV antibody. HIV testing of other patients with tuberculosis should also be considered because of the implications of HIV seropositivity for patient management (9).

References

1. Centers for Disease Control. Tuberculosis—United States, 1985. *MMWR* 1986;35:699-703.
2. Centers for Disease Control. Tuberculosis and acquired immunodeficiency syndrome—New York City. *MMWR* 1987;36:785-90,795.
3. Centers for Disease Control. Tuberculosis and acquired immunodeficiency syndrome—Florida. *MMWR* 1986;35:587-90.
4. Rieder HL, Snider DE Jr, Witte JJ. Pulmonary tuberculosis and acquired immunodeficiency syndrome [Letter]. *Chest* 1987;92:383-4.
5. Pitchenik AE, Burr J, Suarez M, Fertel D, Gonzalez G, Moas C. Human T-cell lymphotropic virus-III (HTLV-III) seropositivity and related disease among 71 consecutive patients in whom tuberculosis was diagnosed. *Am Rev Respir Dis* 1987;135:875-9.

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6. Centers for Disease Control. Tuberculosis among Asians/Pacific Islanders—United States, 1985. *MMWR* 1987;36:331-4.
7. Centers for Disease Control. Tuberculosis among Hispanics—United States, 1985. *MMWR* 1987;36:568-9.
8. American Thoracic Society, Centers for Disease Control. Treatment of tuberculosis and tuberculosis infection in adults and children. *Am Rev Respir Dis* 1986;134:355-63.
9. Centers for Disease Control. Diagnosis and management of mycobacterial infection and disease in persons with human T-lymphotropic virus type III/lymphadenopathy-associated virus infection. *MMWR* 1986;35:448-52.

Influenza Update — United States

Colorado. The first reported domestic outbreak of influenza in the United States for the 1987-88 season occurred in November among children attending a preschool in Colorado.* The index case occurred in a 3-1/2-year-old boy with a history of asthma. On November 12, he became febrile (38.8 °C [102 °F]) and had a cough. He was hospitalized on November 18 because his symptoms had become more severe. Influenza A(H3N2) was isolated from a culture collected on the patient's admission to the hospital. The child's condition improved, and he was discharged on November 20. Further investigation revealed that an outbreak of influenza-like illness had occurred among the child's preschool classmates during the first 2 weeks of November. The outbreak peaked on November 12, when 10 (67%) of the 15 children were absent. None of the other children were hospitalized. Surveillance in the surrounding community revealed no increase either in school absenteeism or in physician reports of outpatient visits for influenza-like illness.

Other reports. For the report week ending December 19, 3 states† reported regional activity of influenza-like illness. So far this season, influenza A(H3N2) has been the predominant strain. Ten states‡ have now reported isolates of influenza A(H3N2) virus. Influenza A, subtype pending, has also been reported from Hawaii, Louisiana, Utah, and Washington. Sporadically occurring cases of influenza B were reported in Arizona during October and in Hawaii during October and November. One case of influenza B has been reported recently from Tennessee. There have been no reports of influenza A(H1N1) virus isolates so far this season.

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Reference

1. Centers for Disease Control. Outbreak of influenza-like illness in a tour group—Alaska. *MMWR* 1987;36:697-8,704.

*This represents the first reported domestic outbreak in the United States, although an outbreak of influenza-like illness among members of a tour group in Alaska was previously reported (1).

†Alabama, South Dakota, and Utah.

‡California, Colorado, Florida, Missouri, North Dakota, South Dakota, Texas, Tennessee, Wisconsin, and Wyoming.

Notices to Readers

Revision of HIV Classification Codes

CDC has updated the International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM) codes for human immunodeficiency virus (HIV) infection for use with United States morbidity and mortality data. The revised coding scheme is effective January 1, 1988. This scheme will allow public health officials, clinical researchers, and agencies that finance medical care to accurately monitor HIV diagnoses on death certificates and medical records. The codes appear in the *MMWR* supplement dated December 25, 1987, and entitled "Human Immunodeficiency Virus (HIV) Infection Codes, Official Authorized Addendum, ICD-9-CM (Revision No. 1)."

Copies of the supplement (*MMWR*, Vol. 36, No. S-7) may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, telephone (202) 783-3238, or from MMS Publications, C.S.P.O. Box 9120, Waltham, Massachusetts 02254, telephone (617) 893-3800.

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TABLE I. Summary — cases of specified notifiable diseases, United States

Disease	50th Week Ending			Cumulative, 50th Week Ending		
	Dec. 19, 1987	Dec. 13, 1986	Median 1982-1986	Dec. 19, 1987	Dec. 13, 1986	Median 1982-1986
Acquired Immunodeficiency Syndrome (AIDS)	732	363	N	20,015	12,609	N
Asseptic meningitis	141	226	179	10,740	10,576	9,999
Encephalitis: Primary (arthropod-borne & unspes)	18	19	21	1,232	1,180	1,284
Post-infectious	3	2	3	88	101	101
Gonorrhea: Civilian	10,772	17,562	18,664	732,603	856,210	856,210
Military	372	503	358	15,596	16,314	20,327
Hepatitis: Type A	483	478	460	23,660	22,050	22,043
Type B	514	526	534	24,410	24,805	24,805
Non A, Non B	56	50	N	2,780	3,379	N
Unspecified	48	93	121	2,979	4,215	5,536
Legionellosis	19	15	N	835	794	N
Leprosy	15	12	7	202	253	233
Malaria	57	9	9	857	1,068	968
Measles: Total*	8	189	18	3,579	6,130	2,548
Indigenous	8	166	N	3,158	5,822	N
Imported	-	3	N	421	308	N
Meningococcal infections: Total	55	44	47	2,745	2,379	2,564
Civilian	55	44	47	2,744	2,377	2,560
Military	-	-	-	1	2	7
Mumps	157	221	75	12,123	5,411	3,237
Pertussis	42	36	40	2,400	3,997	2,270
Rubella (German measles)	1	4	6	327	512	722
Syphilis (Primary & Secondary): Civilian	844	617	617	34,326	26,090	26,996
Military	7	10	8	158	163	278
Toxic Shock syndrome	1	4	N	311	346	N
Tuberculosis	588	466	574	20,786	21,090	21,090
Tularemia	2	6	5	185	163	250
Typhoid Fever	11	14	8	340	315	308
Typhus fever, tick-borne (RMSF)	7	6	3	586	740	828
Rabies, animal	42	78	70	4,410	5,179	5,184

TABLE II. Notifiable diseases of low frequency, United States

	Cum. 1987		Cum. 1987
Anthrax	1	Leptospirosis	37
Botulism: Foodborne	12	Plague	11
Infant	45	Polioomyelitis, Paralytic	-
Other	2	Psittacosis (R.I. 1; Ga. 1; Calif. 1)	80
Brucellosis (Upstate N.Y. 1)	114	Rabies, human	-
Cholera	5	Tetanus	34
Congenital rubella syndrome	8	Trichinosis	37
Congenital syphilis, ages < 1 year	127	Typhus fever, flea-borne (endemic, murine)	37
Diphtheria	3		

*There were no cases of internationally imported measles reported for this week.

TABLE III. Cases of specified notifiable diseases, United States, weeks ending December 19, 1987 and December 13, 1986 (50th Week)

Reporting Area	AIDS	Aseptic Meningi- tis	Encephalitis		Gonorrhea (Civilian)		Hepatitis (Viral), by type				Legionel- losis	Leprosy
			Primary	Post-in- fectious	A B NA,NB Unspeci- fied							
					A	B	NA,NB	Unspeci- fied				
	Cum. 1987	1987	Cum. 1987	Cum. 1987	Cum. 1987	Cum. 1986	1987	1987	1987	1987	Cum. 1987	
UNITED STATES	20,015	141	1,232	98	732,603	856,210	483	514	56	48	19	202
NEW ENGLAND	822	17	44	2	22,823	21,080	12	43	2	2	1	19
Maine	28	-	4	-	676	800	-	1	-	-	-	-
N.H.	32	2	2	-	394	562	-	3	1	-	-	2
Vt.	15	1	6	-	208	280	-	-	-	-	-	-
Mass.	457	4	17	1	8,006	8,297	5	25	1	2	-	16
R.I.	68	2	3	1	2,062	1,780	7	6	-	-	1	-
Conn.	222	8	12	-	11,477	9,381	-	8	-	-	-	1
MID. ATLANTIC	5,708	3	141	8	114,093	148,151	37	70	4	5	3	22
Update N.Y.	685	1	52	3	15,963	18,011	28	22	4	2	3	-
N.Y. City	3,106	2	15	1	81,100	85,702	6	41	-	2	-	21
N.J.	1,364	-	10	-	15,882	19,454	3	7	-	1	-	-
Pa.	573	-	64	4	21,148	25,984	-	-	-	-	-	1
E.N. CENTRAL	1,248	19	357	13	112,036	114,600	41	53	3	2	5	8
Ohio	279	9	180	6	25,309	28,160	6	8	1	-	-	3
Ind.	110	-	53	-	8,934	12,131	12	18	1	-	-	-
Ill.	948	4	26	7	32,253	25,710	3	11	-	-	-	1
Mich.	213	6	78	-	36,313	38,335	20	16	1	2	5	3
Wis.	98	-	40	-	8,227	12,012	-	-	-	-	-	1
W.N. CENTRAL	483	21	88	-	26,648	36,595	74	25	4	-	1	-
Minn.	130	5	53	-	4,342	5,272	-	2	-	-	-	-
Iowa	27	2	14	-	2,825	3,718	7	2	2	-	-	-
Mo.	233	2	1	-	15,909	18,075	39	18	2	-	-	-
N. Dak.	2	-	1	-	268	300	-	-	-	-	-	-
S. Dak.	2	-	-	-	596	749	-	-	-	-	1	-
Nebr.	21	2	10	-	1,917	2,680	-	-	-	-	-	-
Kans.	48	10	9	-	3,891	5,801	28	3	-	-	-	-
S. ATLANTIC	3,476	35	189	37	192,437	222,118	21	107	18	6	5	5
Dal.	36	-	7	1	3,273	3,625	-	-	-	-	-	-
Md.	459	4	21	8	22,232	26,316	7	19	1	1	2	2
D.C.	444	-	-	-	12,757	16,592	-	1	-	-	-	-
Va.	231	5	39	2	14,045	18,292	4	26	7	2	1	-
W. Va.	20	-	57	-	1,354	2,114	-	1	-	1	-	-
N.C.	188	15	28	-	29,257	34,548	2	10	1	-	1	-
S.C.	77	3	1	-	14,192	18,737	4	12	1	-	1	1
Ge.	457	2	1	-	34,345	38,722	-	19	1	1	-	-
Fla.	1,598	6	15	28	60,982	65,172	4	19	7	1	-	2
E.S. CENTRAL	309	9	62	8	55,258	67,729	8	30	2	-	-	-
Ky.	47	1	31	1	5,565	7,516	6	5	-	-	-	1
Tenn.	70	2	13	-	19,386	25,507	1	6	1	-	-	-
Ala.	143	3	18	1	17,276	19,546	1	17	1	-	-	-
Miss.	49	3	-	6	13,031	14,760	-	2	-	-	-	-
W.S. CENTRAL	2,165	8	148	4	83,008	99,216	47	36	5	17	1	4
Ark.	45	-	3	2	9,300	9,313	1	-	-	-	-	-
La.	334	-	29	-	13,168	17,088	1	2	-	-	-	-
Okl.	106	-	27	1	8,968	11,331	6	1	1	-	1	-
Tex.	1,680	8	80	1	51,672	61,504	39	33	4	17	-	4
MOUNTAIN	618	6	74	4	19,064	24,940	82	54	6	3	1	2
Mont.	7	-	1	-	545	650	1	2	1	-	-	-
Idaho	10	-	-	-	652	841	9	2	-	-	-	1
Wyo.	3	1	1	-	407	510	-	-	-	-	-	-
Colo.	205	3	42	-	4,344	6,428	4	12	1	-	1	-
N. Mex.	47	-	5	-	2,063	2,673	14	9	-	-	-	-
Ariz.	217	2	19	1	6,471	8,057	53	21	4	3	-	-
Utah	39	-	1	3	633	1,077	1	-	-	-	-	-
Nev.	88	-	5	-	3,949	4,796	-	8	-	-	-	1
PACIFIC	5,210	23	149	22	104,146	120,781	161	96	12	13	2	142
Wash.	319	-	12	4	8,394	9,013	61	30	7	2	2	6
Oreg.	180	-	-	-	3,792	5,232	30	11	-	-	-	1
Calif.	4,637	20	130	18	89,517	103,002	63	54	5	11	-	109
Alaska	14	-	3	-	1,649	2,538	7	1	-	-	-	-
Hawaii	80	3	4	-	794	1,248	-	-	-	-	-	26
Guam	3	-	-	-	180	212	-	-	-	-	-	-
P.R.	200	1	1	1	1,862	2,329	-	4	2	11	-	5
V.I.	-	-	-	-	276	259	-	-	-	-	-	-
Pac. Trust Terr.	-	-	-	-	355	472	-	-	-	-	-	48
Amer. Samoa	-	-	-	-	76	57	-	-	-	-	-	1

N: Not notifiable

U: Unavailable

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending December 19, 1987 and December 13, 1986 (50th Week)

Reporting Area	Malaria	Measles (Rubella)					Menin- gococcal infections	Mumps		Pertussis			Rubella		
		Indigenous		Imported ^a	Total										
		Cum. 1987	1987		Cum. 1987	1987		Cum. 1987	Cum. 1986	Cum. 1987	1987	Cum. 1987	Cum. 1986	1987	Cum. 1987
UNITED STATES	857	8	3,158	-	421	6,130	2,745	157	12,123	42	2,400	3,997	1	327	512
NEW ENGLAND	55	-	120	-	163	103	226	-	60	2	172	175	-	2	9
Maine	2	-	3	-	13	13	13	-	1	1	34	2	-	1	-
N.H.	3	-	62	-	102	43	22	-	11	-	43	82	-	-	1
Vt.	-	-	11	-	15	-	19	-	7	-	4	3	-	-	1
Mass.	22	-	27	-	39	36	111	-	23	-	58	56	-	1	4
R.I.	8	-	1	-	1	2	14	-	2	-	5	6	-	-	2
Conn.	20	-	16	-	6	9	47	-	18	1	31	26	-	-	1
MID. ATLANTIC	113	-	531	-	57	1,907	359	11	295	5	298	214	-	12	37
Update N.Y.	35	-	29	-	14	101	130	8	120	2	165	134	-	10	27
N.Y. City	24	-	447	-	19	867	36	-	16	-	19	10	-	1	5
N.J.	28	-	32	-	7	911	71	-	75	1	22	20	-	1	5
Pa.	26	-	23	-	17	28	122	3	74	2	92	50	-	-	-
E.N. CENTRAL	52	4	365	-	25	1,125	420	39	6,470	8	244	393	-	37	79
Ohio	14	-	1	-	4	10	140	-	113	-	74	168	-	-	1
Ind.	7	-	-	-	38	43	3	-	934	3	20	36	-	-	-
Ill.	7	4	192	-	18	683	102	18	2,646	1	18	40	-	27	69
Mich.	18	-	29	-	107	110	21	1,093	4	53	36	-	9	8	8
Wis.	6	-	143	-	3	287	25	-	1,694	-	79	112	-	1	1
W.N. CENTRAL	28	-	208	-	22	340	113	20	1,440	5	144	1,348	-	2	14
Minn.	8	-	19	-	20	49	32	-	782	-	14	48	-	-	1
Iowa	6	-	-	-	134	5	10	481	-	58	19	-	1	1	1
Mo.	8	-	189	-	1	32	35	5	38	5	39	24	-	-	-
N. Dak.	-	-	1	-	25	1	-	6	-	14	6	-	-	-	-
S. Dak.	-	-	-	-	-	3	-	90	-	3	14	-	-	-	-
Nebr.	5	-	-	-	1	6	-	4	-	1	10	-	-	-	-
Kans.	1	-	-	-	1	99	31	5	59	-	15	1,227	-	1	10
S. ATLANTIC	143	-	165	-	13	874	450	13	316	3	316	777	-	18	12
Del.	3	-	32	-	1	7	-	-	-	-	5	227	-	2	-
Md.	34	-	9	-	2	35	47	1	31	-	19	164	-	3	1
D.C.	20	-	-	-	1	2	11	-	1	-	-	-	-	-	-
Va.	26	-	1	-	-	60	68	4	87	-	55	55	-	1	-
W. Va.	2	-	-	-	2	6	1	41	-	50	26	-	-	-	-
N.C.	13	-	2	-	4	4	52	-	30	3	122	85	-	1	-
S.C.	6	-	2	-	-	301	41	2	21	-	-	18	-	-	-
Ga.	6	-	9	-	1	93	90	-	40	-	23	133	-	2	-
Fla.	33	-	110	-	5	375	128	5	65	-	42	89	-	8	11
E.S. CENTRAL	15	-	5	-	3	70	147	31	1,514	-	47	49	-	3	4
Ky.	3	-	-	-	6	29	-	273	-	2	5	2	-	2	-
Tenn.	1	-	-	-	56	65	30	1,177	-	15	18	-	1	-	-
Ala.	5	-	1	-	3	2	44	1	63	-	24	25	-	-	-
Miss.	6	-	4	-	6	9	-	N	N	-	6	1	-	-	-
W.S. CENTRAL	54	-	444	-	4	723	189	21	1,314	1	312	253	-	12	73
Ark.	1	-	-	-	283	21	-	283	-	13	20	-	2	1	-
La.	1	-	-	-	4	24	13	689	-	60	15	-	-	-	-
Ola.	5	-	3	-	1	39	28	N	N	1	171	129	-	6	-
Tex.	47	-	441	-	3	397	115	8	316	-	78	89	-	4	72
MOUNTAIN	42	-	480	-	19	330	89	16	253	4	217	281	-	25	24
Mont.	-	-	127	-	1	8	4	2	9	-	7	20	-	8	2
Idaho	3	-	-	-	1	6	-	-	7	2	75	51	-	1	-
Wyo.	2	-	-	-	2	-	-	-	-	-	5	4	-	1	1
Colo.	13	-	5	-	4	10	33	2	33	-	69	66	-	-	1
N. Mex.	2	-	311	-	9	38	7	N	N	-	12	28	-	-	-
Ariz.	18	-	35	-	1	258	26	11	186	-	38	65	-	5	2
Utah	1	-	-	-	1	13	9	-	12	2	12	43	-	10	15
Nev.	3	-	2	-	1	2	4	1	6	-	-	4	-	-	3
PACIFIC	355	4	840	-	115	658	753	6	471	14	650	507	1	216	260
Wash.	27	-	34	-	12	176	80	3	66	-	96	154	-	2	17
Oreg.	6	1	22	-	81	12	38	N	N	12	83	16	-	2	4
Calif.	316	3	784	-	17	441	620	3	382	2	228	302	1	140	233
Alaska	3	-	-	-	1	-	7	-	7	-	5	5	-	2	-
Hawaii	3	-	-	-	4	29	10	-	16	-	236	33	-	70	6
Guam	-	-	2	-	-	5	5	-	5	-	-	-	-	1	4
P.R.	1	-	771	-	-	44	5	-	13	-	20	19	-	3	82
V.I.	-	-	-	-	-	-	-	-	21	-	-	-	-	1	2
Pac. Trust Terr.	-	-	1	-	-	-	1	-	5	-	1	-	-	-	-
Amer. Samoa	-	-	2	-	-	2	-	-	7	-	-	-	-	-	-

^aFor measles only, imported cases includes both out-of-state and international importations.N: Not notifiable U: Unavailable ¹International ²Out-of-State

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending December 19, 1987 and December 13, 1986 (50th Week)

Reporting Area	Syphilis (Chlitan) (Primary & Secondary)		Toxic-shock Syndrome	Tuberculosis		Tula- nemia	Typhoid Fever	Typhus Fever (Tick-borne) (RMSF)	Rabies, Animal
	Cum. 1987	Cum. 1986		Cum. 1987	Cum. 1986				
UNITED STATES	34,336	26,090	1	20,768	21,090	185	340	586	4,410
NEW ENGLAND	629	471	-	641	655	1	33	8	7
Maine	1	19	-	28	34	-	2	-	3
N.H.	3	13	-	18	32	-	-	-	-
Vt.	4	9	-	16	16	-	1	-	-
Mass.	297	258	-	358	359	1	19	4	-
R.I.	12	19	-	61	46	-	3	-	1
Conn.	312	153	-	160	168	-	8	4	3
MID. ATLANTIC	6,189	3,642	-	3,867	4,133	1	44	26	390
Upstate N.Y.	247	187	-	507	605	1	10	11	54
N.Y. City	4,944	2,052	-	1,931	2,152	-	13	5	-
N.J.	697	632	-	690	702	-	21	1	15
Pa.	661	771	-	739	674	-	-	9	321
E.N. CENTRAL	836	822	-	2,294	2,467	3	36	38	150
Ohio	105	125	-	431	434	1	11	22	14
Ind.	67	108	-	242	260	-	5	1	17
Ill.	421	370	-	1,018	1,081	-	12	7	46
Mich.	194	177	-	510	578	-	5	5	28
Wis.	98	42	-	93	105	2	3	3	46
W.N. CENTRAL	177	206	-	584	622	67	11	54	924
Minn.	23	33	-	115	146	-	5	-	224
Iowa	27	9	-	39	46	4	2	1	263
Mo.	79	108	-	314	307	41	3	19	56
N. Dak.	1	6	-	14	10	1	-	-	106
S. Dak.	11	9	-	24	28	9	-	1	219
Nebr.	16	12	-	25	17	4	-	3	16
Kans.	20	31	-	53	68	8	1	30	40
S. ATLANTIC	12,085	7,966	-	4,466	4,252	5	37	225	1,283
Del.	67	58	-	38	48	1	-	2	-
Md.	610	448	-	389	299	-	4	46	438
D.C.	389	291	-	152	158	-	3	-	43
Va.	314	325	-	413	367	2	10	22	351
W. Va.	13	20	-	98	123	-	1	7	76
N.C.	762	518	-	600	626	2	3	80	8
S.C.	688	684	-	461	537	-	-	36	59
Ga.	1,621	1,449	-	867	718	-	2	29	202
Fla.	7,671	4,172	-	1,517	1,386	-	14	3	106
E.S. CENTRAL	1,838	1,705	1	1,864	1,868	8	4	98	301
Ky.	27	66	1	402	423	3	2	13	135
Tenn.	730	689	-	601	553	1	1	88	81
Ala.	484	496	-	529	575	1	1	15	78
Miss.	697	542	-	332	317	3	-	12	7
W.S. CENTRAL	4,284	5,083	-	2,412	2,721	72	30	117	584
Ark.	251	254	-	289	380	38	2	12	132
La.	775	894	-	312	391	3	-	-	13
Okla.	176	142	-	233	248	28	4	87	32
Tex.	3,083	3,763	-	1,578	1,702	3	24	18	417
MOUNTAIN	670	600	-	528	531	16	16	16	258
Mont.	9	7	-	18	27	2	-	11	164
Idaho	6	18	-	26	23	1	-	-	9
Wyo.	3	4	-	-	-	-	-	-	73
Colo.	123	133	-	65	72	6	-	3	7
N. Mex.	64	68	-	98	98	1	11	-	81
Ariz.	284	247	-	261	240	3	4	-	7
Utah	25	18	-	25	31	2	-	1	14
Nev.	166	108	-	33	40	2	1	-	-
PACIFIC	7,647	5,626	-	4,112	3,841	12	129	4	413
Wash.	183	166	-	243	204	4	8	-	-
Oreg.	280	115	-	128	121	5	3	1	-
Calif.	7,182	5,306	-	3,483	3,281	2	110	3	406
Alaska	4	1	-	67	65	1	-	-	7
Hawaii	18	34	-	191	170	-	8	-	-
Guam	2	1	-	26	36	-	-	-	-
P.R.	864	836	-	304	329	-	-	-	67
V.I.	10	1	-	2	1	-	-	-	-
Pac. Trust Terr.	222	312	-	164	95	-	20	-	-
Amer. Samoa	2	1	-	4	5	-	1	-	-

U: Unavailable

TABLE IV. Deaths in 121 U.S. cities,* week ending December 19, 1987 (50th Week)

Reporting Area	All Causes, By Age (Years)						P&I**	Total	Reporting Area	All Causes, By Age (Years)						P&I**	Total
	All Ages	<5	45-64	25-44	1-24	<1				All Ages	<5	45-64	25-44	1-24	<1		
NEW ENGLAND	724	515	131	48	14	16	56		S. ATLANTIC	1,319	828	278	122	40	50	57	
Boston, Mass.	188	118	42	14	8	6	23		Atlanta, Ga.	203	122	48	20	4	9	9	
Bridgeport, Conn.	48	28	10	7	1	2	3		Baltimore, Md.	156	91	40	13	4	8	12	
Cambridge, Mass.	25	22	2	1	-	-	3		Charlotte, N.C.	94	69	15	5	2	3	7	
Fall River, Mass.	27	22	4	1	-	-	-		Jacksonville, Fla.	127	87	19	9	10	2	3	
Hartford, Conn.	83	61	14	4	2	2	3		Miami, Fla.	155	77	45	25	5	3	-	
Lowell, Mass.	34	24	7	3	-	-	1		Norfolk, Va.	46	23	7	7	3	8	4	
Lynn, Mass.	19	14	3	1	1	-	-		Richmond, Va.	102	69	23	5	1	3	9	
New Bedford, Mass.	29	24	2	2	1	-	-		Savannah, Ga.	66	47	13	4	-	2	5	
New Haven, Conn.	73	53	10	7	1	2	6		St. Petersburg, Fla.	81	64	7	4	2	4	2	
Providence, R.I.	89	44	10	3	-	2	3		Tampa, Fla.	68	45	17	2	1	3	4	
Somerville, Mass.	5	4	1	-	-	-	-		Washington, D.C.	196	113	41	28	7	7	1	
Springfield, Mass.	42	30	8	3	-	1	2		Wilmington, Del.	25	21	3	-	1	-	1	
Waterbury, Conn.	35	28	7	-	-	-	3										
Worcester, Mass.	57	43	11	2	-	-	1	8	E.S. CENTRAL	805	540	164	54	20	27	54	
MID. ATLANTIC	2,961	1,967	595	268	78	72	130		Birmingham, Ala.	117	76	24	8	2	7	7	
Albany, N.Y.	58	42	10	5	1	-	1		Chattanooga, Tenn.	73	53	11	6	1	2	6	
Allentown, Pa.	14	12	2	-	-	-	-		Knoxville, Tenn.	89	67	12	5	3	2	7	
Buffalo, N.Y.	124	82	29	8	2	2	8		Louisville, Ky.	98	68	23	4	1	2	4	
Camden, N.J.	53	30	14	5	1	3	3		Memphis, Tenn.	173	109	40	11	8	5	14	
Elizabeth, N.J.	23	16	4	2	-	1	3		Mobile, Ala.	93	58	25	7	2	1	7	
Erie, Pa.	44	34	6	3	-	1	5		Montgomery, Ala.	29	20	3	1	-	5	4	
Jersey City, N.J.	73	45	16	10	1	1	2		Nashville, Tenn.	133	89	28	12	3	3	8	
N.Y. City, N.Y.	1,518	974	296	174	39	35	80		W.S. CENTRAL	1,373	828	286	182	62	44	58	
Peterborough, N.J.	52	36	18	12	3	3	2		Austin, Tex.	55	38	8	5	2	2	4	
Peterboro, N.J.	36	23	6	5	2	-	-		Baton Rouge, La.	37	25	7	3	1	1	1	
Philadelphia, Pa.	484	318	107	20	22	17	22		Corpus Christi, Tex.	46	33	10	-	2	1	2	
Pittsburgh, Pa.	83	60	18	2	-	3	2		Dallas, Tex.	210	121	47	25	10	7	6	
Reading, Pa.	41	36	4	1	-	-	2		El Paso, Tex.	56	36	9	5	3	3	2	
Rochester, N.Y.	134	95	29	5	3	2	7		Fort Worth, Tex.	101	68	18	10	3	4	3	
Schenectady, N.Y.	37	28	4	5	-	-	3		Houston, Tex.	306	176	74	34	13	11	7	
Scranton, Pa.	28	21	6	4	-	-	4		Little Rock, Ark.	54	34	9	6	3	1	2	
Syracuse, N.Y.	81	59	13	4	3	2	6		New Orleans, La.	194	93	39	38	15	1	2	
Trenton, N.J.	36	28	3	3	-	2	3		San Antonio, Tex.	179	100	45	19	8	7	19	
Utica, N.Y.	22	18	3	1	-	-	2		Shreveport, La.	56	43	7	2	1	3	6	
Yonkers, N.Y.	40	30	7	2	1	-	5		Tulsa, Okla.	87	63	13	7	1	3	7	
E.N. CENTRAL	2,282	1,512	500	146	52	72	112		MOUNTAIN	649	437	136	40	22	14	36	
Akron, Ohio	51	33	12	5	-	1	-		Albuquerque, N. Mex.	84	49	18	9	6	2	5	
Canton, Ohio	36	23	8	2	2	1	4		Colorado Springs, Colo.	43	29	7	5	2	-	7	
Chicago, Ill.	564	362	125	45	10	22	16		Denver, Colo.	111	75	29	4	2	1	1	
Cincinnati, Ohio	160	107	35	11	5	2	14		Las Vegas, Nev.	102	62	28	9	3	-	7	
Cleveland, Ohio	171	93	54	7	10	7	1		Ogden, Utah	23	18	3	1	-	-	3	
Columbus, Ohio	127	82	23	17	1	4	4		Phoenix, Ariz.	122	80	21	5	3	3	2	
Dayton, Ohio	120	84	25	7	1	3	8		Pueblo, Colo.	21	15	4	1	1	-	5	
Detroit, Mich.	258	166	60	23	4	5	7		Salt Lake City, Utah	45	30	4	1	4	6	-	
Evansville, Ind.	51	45	6	-	-	-	2		Tucson, Ariz.	98	68	22	5	1	2	6	
Fort Wayne, Ind.	43	32	7	2	1	1	4		PACIFIC	1,989	1,348	362	157	64	51	110	
Gary, Ind.	15	10	3	2	-	-	-		Berkeley, Calif.	22	15	5	2	-	-	1	
Grand Rapids, Mich.	54	40	7	1	2	4	6		Freemont, Calif.	63	48	7	4	2	2	4	
Indianapolis, Ind.	190	119	47	12	5	7	6		Glendale, Calif.	25	19	4	2	-	-	1	
Madison, Wis.	36	27	5	-	2	2	3		Honolulu, Hawaii	88	64	14	6	2	2	13	
Milwaukee, Wis.	119	87	20	4	1	7	9		Long Beach, Calif.	114	72	23	7	5	7	8	
Peoria, Ill.	42	26	11	1	2	1	5		Los Angeles, Calif.	837	347	101	54	22	6	18	
Rockford, Ill.	42	31	8	1	1	1	4		Oakland, Calif.	62	48	8	4	1	2	9	
South Bend, Ind.	59	46	12	1	-	-	7		Pasadena, Calif.	29	23	5	-	-	1	2	
Toledo, Ohio	97	64	22	5	3	3	8		Portland, Oreg.	152	111	26	10	3	2	6	
Youngstown, Ohio	47	36	10	-	2	-	3		Sacramento, Calif.	157	107	30	12	4	4	9	
W.N. CENTRAL	761	490	163	53	20	35	34		San Diego, Calif.	148	98	25	8	11	5	12	
Des Moines, Iowa	53	35	13	4	-	1	6		San Francisco, Calif.	180	117	31	23	4	5	7	
Duluth, Minn.	26	20	3	2	-	1	-		San Jose, Calif.	160	108	33	11	2	6	13	
Kansas City, Kans.	41	22	8	5	2	4	1		Seattle, Wash.	158	108	33	7	5	5	3	
Kansas City, Mo.	107	66	21	7	4	9	4		Spokane, Wash.	47	32	7	4	1	3	3	
Lincoln, Neb.	43	32	6	4	-	1	2		Tacoma, Wash.	47	32	9	3	2	1	1	
Minneapolis, Minn.	148	97	31	14	8	2	9										
Omaha, Neb.	78	45	25	5	2	1	3		TOTAL	12,863**	8,485	2,615	1,040	372	361	648	
St. Louis, Mo.	127	87	24	7	4	5	5										
St. Paul, Minn.	63	43	14	1	-	5	-										
Wichita, Kans.	75	43	18	4	4	6	4										

*Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.

**Pneumonia and influenza.

†Because of changes in reporting methods in these 3 Pennsylvania cities, these numbers are partial counts for the current week.

Complete counts will be available in 4 to 6 weeks.

‡Total includes unknown ages.

§Data not available. Figures are estimates based on average of past 4 weeks.

TABLE I. Summary — cases of specified notifiable diseases, United States

Disease	51st Week Ending			Cumulative, 51st Week Ending		
	Dec. 26, 1987	Dec. 20, 1986	Median 1982-1986	Dec. 26, 1987	Dec. 20, 1986	Median 1982-1986
Acquired Immunodeficiency Syndrome (AIDS)	155	362	N	20,417	12,971	N
Asseptic meningitis	97	172	159	10,835	10,748	10,158
Encephalitis: Primary (arthropod-borne & unspc)	18	24	22	1,250	1,204	1,285
Post-infectious	1	2	1	99	103	103
Gonorrhea: Civilian	8,186	18,484	10,383	741,795	874,694	874,694
Military	160	442	380	15,757	16,756	20,785
Hepatitis: Type A	369	554	416	24,028	22,604	22,515
Type B	352	514	524	24,749	25,319	25,319
Non A, Non B	38	48	N	2,619	3,427	N
Unspecified	50	71	105	3,023	4,298	5,641
Legionellosis	14	17	N	849	811	N
Leprosy	1	7	4	203	280	237
Malaria	10	18	9	868	1,084	1,008
Measles: Total*	9	85	9	3,589	6,215	2,557
Indigenous	9	83	N	3,167	5,905	N
Imported	-	2	N	422	310	N
Meningococcal infections: Total	49	53	50	2,794	2,432	2,614
Civilian	49	53	50	2,793	2,430	2,610
Military	-	-	-	1	2	7
Mumps	125	258	58	12,259	5,699	3,295
Pertussis	59	34	58	2,459	4,031	2,328
Rubella (German measles)	1	3	9	328	515	734
Syphilis (Primary & Secondary): Civilian	499	728	663	34,834	26,818	27,559
Military	1	-	2	160	163	280
Toxic Shock syndrome	11	6	N	322	352	N
Tuberculosis	331	535	503	21,083	21,625	21,625
Tularemia	1	5	4	186	156	255
Typhoid fever	2	5	8	342	320	381
Typhus fever, tick-borne (RMSF)	6	3	3	580	743	830
Rabies, animal	47	79	69	4,458	5,258	5,279

TABLE II. Notifiable diseases of low frequency, United States

	Cum. 1987		Cum. 1987
Anthrax	1	Leptospirosis	37
Botulism: Foodborne (Fla. 2; Alaska 1)	15	Plague	11
Infant (Hawaii 1)	46	Polioencephalitis, Paralytic	-
Other	2	Pottacosis	80
Brucellosis (Calif. 1)	115	Rabies, human	-
Cholera	4	Tetanus (Tex. 1)	39
Congenital rubella syndrome	5	Trichinosis	34
Congenital syphilis, ages < 1 year	127	Typhus fever, flea-borne (endemic, murine)	37
Diphtheria	3		

*There were no cases of internationally imported measles reported for this week.

TABLE III. Cases of specified notifiable diseases, United States, weeks ending December 26, 1987 and December 20, 1986 (51st Week)

Reporting Area	AIDS	Aseptic Meningi- tis	Encephalitis		Gonorrhea (Civilian)		Hepatitis (Viral), by type				Legionel- losis	Leprosy
			Primary	Post-in- fectious	Gonorrhea (Civilian)		Hepatitis (Viral), by type					
					A	B	NA/NB	Unspeci- fied				
	Cum. 1987	1987	Cum. 1987	Cum. 1987	Cum. 1987	Cum. 1986	1987	1987	1987	1987	1987	Cum. 1987
UNITED STATES	20,417	97	1,250	99	741,795	874,084	369	362	38	50	14	203
NEW ENGLAND	623	1	44	2	23,178	21,420	12	25	2	4	-	20
Maine	28	-	4	-	690	825	1	-	-	-	-	-
N.H.	33	-	2	-	396	573	-	-	-	-	-	2
Vt.	15	-	6	-	212	264	1	-	1	-	-	-
Mass.	457	-	17	1	8,094	8,447	9	15	-	4	-	16
R.I.	68	1	3	1	2,080	1,800	-	1	1	-	-	-
Conn.	222	-	12	-	11,698	9,511	1	9	-	-	-	2
MID. ATLANTIC	5,952	16	144	8	115,910	154,251	27	45	-	4	2	22
Update N.Y.	672	3	63	3	16,835	18,468	16	17	-	-	1	-
N.Y. City	3,288	4	16	1	61,100	88,440	6	16	-	3	1	21
N.J.	1,419	9	11	-	16,585	19,525	5	12	-	1	-	-
Pa.	673	-	64	4	21,290	26,418	-	-	-	-	-	1
E.N. CENTRAL	1,301	4	358	13	113,153	117,389	11	21	2	2	3	8
Ohio	279	3	161	6	25,590	29,827	4	10	1	1	1	3
Ind.	110	-	53	-	9,028	12,131	2	2	-	-	1	-
Ill.	603	-	26	7	32,432	25,888	-	-	-	-	-	1
Mich.	213	1	78	-	36,878	37,129	5	9	1	1	1	3
Wis.	98	-	40	-	9,227	12,202	-	-	-	-	-	1
W.N. CENTRAL	465	2	91	-	30,117	37,356	38	20	1	-	2	-
Minn.	130	-	54	-	4,424	5,359	1	5	-	-	-	-
Iowa	27	-	16	-	2,925	3,814	-	1	-	-	1	-
Mo.	233	1	1	-	16,121	18,421	3	5	-	-	-	-
N. Dak.	2	-	1	-	274	303	-	-	-	-	-	-
S. Dak.	2	-	-	-	611	787	1	-	1	-	-	-
Neb.	23	-	10	-	1,977	2,791	25	1	-	-	-	-
Kans.	48	1	9	-	3,785	5,901	8	8	-	-	1	-
S. ATLANTIC	3,548	31	171	37	194,887	226,010	29	86	7	23	4	5
Del.	36	-	7	1	3,328	3,688	-	-	1	-	3	-
MD	459	12	21	8	22,545	26,536	7	14	-	3	1	2
D.C.	444	-	-	-	13,041	16,795	-	1	-	-	-	-
Va.	231	-	40	2	14,383	18,573	3	3	-	17	-	-
W. Va.	21	-	57	-	1,432	2,114	-	-	-	-	-	-
N.C.	193	7	28	-	28,541	35,166	7	15	2	1	-	-
S.C.	78	-	1	-	14,182	19,016	1	3	-	-	-	1
Ga.	500	1	1	-	34,835	37,467	1	16	1	-	-	-
Fla.	1,586	11	16	26	61,620	66,365	10	36	3	2	-	2
E.S. CENTRAL	311	-	62	8	55,969	60,085	7	15	1	-	-	-
Ky.	47	-	31	1	5,617	7,888	5	2	1	-	-	-
Tenn.	72	-	13	-	19,746	26,046	-	11	-	-	-	-
Ala.	143	-	18	1	17,418	20,283	2	2	-	-	-	-
Miss.	49	-	-	6	13,178	15,088	-	-	-	-	-	-
W.S. CENTRAL	2,167	3	154	4	83,360	101,490	34	25	7	3	1	4
Ark.	47	-	3	2	9,365	9,489	12	3	1	-	-	-
La.	234	-	28	-	13,247	17,217	3	7	2	-	-	-
Okla.	106	-	27	1	9,096	11,503	6	7	1	-	1	-
Tex.	1,680	3	96	1	51,672	63,281	13	8	3	3	-	4
MOUNTAIN	639	4	74	4	19,210	25,382	64	32	6	4	-	2
Mont.	7	-	1	-	585	660	-	-	-	-	-	-
Idaho	10	-	-	-	655	858	7	4	-	-	-	1
Wyo.	3	-	1	-	415	518	-	-	-	-	-	-
Colo.	227	3	42	-	4,344	6,550	19	7	2	1	-	-
N. Mex.	48	-	5	-	2,100	2,726	2	3	1	-	-	-
Ariz.	217	1	19	1	6,496	8,171	34	7	2	1	-	-
Utah	39	-	1	3	653	1,083	2	1	1	2	-	-
Nev.	88	-	5	-	3,992	4,784	-	10	-	-	-	1
PACIFIC	5,211	38	182	23	106,031	122,321	147	81	12	10	2	142
Wash.	319	-	12	4	6,584	9,064	10	4	-	1	-	6
Oreg.	160	-	-	-	3,907	5,316	20	9	1	-	-	1
Calif.	4,638	25	133	19	91,071	104,233	106	63	11	8	2	109
Alaska	14	4	3	-	1,684	2,588	11	3	-	1	-	-
Hawaii	80	7	4	-	806	1,272	-	2	-	-	-	26
Guam	3	-	-	-	180	218	-	-	-	-	-	-
P.R.	200	-	1	1	1,673	2,343	-	5	-	-	-	5
V.I.	-	-	-	-	276	284	-	-	-	-	-	-
Pac. Trust Terr.	-	-	-	-	355	480	-	-	-	-	-	48
Amer. Samoa	-	-	-	-	76	89	-	-	-	-	-	1

N: Not notifiable

U: Unavailable

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending December 26, 1987 and December 26, 1988 (51st Week)

Reporting Area	Malaria	Measles (Rubella)					Meningo- coccal Infections	Mumps		Pertussis			Rubella		
		Indigenous		Imported*		Total		1987	Cum. 1987	1987	Cum. 1987	Cum. 1988	1987	Cum. 1987	Cum. 1988
		Cum. 1987	1987	Cum. 1987	1987										
UNITED STATES	868	9	3,167	-	422	6,215	2,794	125	12,259	59	2,459	4,031	1	328	615
NEW ENGLAND	95	-	120	-	183	103	228	-	90	13	185	179	-	2	9
Maine	2	-	3	-	13	13	13	-	1	-	34	2	-	1	-
N.H.	3	-	62	-	102	43	22	-	11	13	86	94	-	-	1
Vt.	-	-	11	-	15	-	19	-	7	-	4	3	-	-	1
Mass.	22	-	27	-	39	36	111	-	23	-	55	57	-	1	4
R.I.	8	-	1	-	1	2	14	-	2	-	5	7	-	-	2
Conn.	20	-	16	-	6	9	49	-	16	-	31	26	-	-	1
MID. ATLANTIC	114	1	532	-	57	1,977	362	8	293	10	308	222	-	12	37
Upstate N.Y.	35	-	29	-	14	101	130	8	126	4	169	141	-	10	27
N.Y. City	24	1	448	-	19	937	37	-	16	-	19	10	-	1	5
N.J.	29	-	32	-	7	911	73	1	76	3	25	20	-	1	5
Pa.	26	-	23	-	17	28	122	1	75	3	95	51	-	-	-
E.N. CENTRAL	82	-	305	-	25	1,128	425	89	6,539	17	261	395	-	37	80
Ohio	14	-	1	-	4	10	143	26	139	14	86	166	-	-	1
Ind.	7	-	-	-	-	38	45	28	962	3	23	36	-	-	-
Ill.	7	-	182	-	18	684	102	1	2,647	-	18	41	-	27	70
Mich.	18	-	29	-	107	110	110	14	1,107	-	83	36	-	9	8
Wis.	6	-	143	-	3	287	25	-	1,564	-	79	113	-	1	1
W.N. CENTRAL	28	-	208	-	22	341	115	8	1,446	2	146	1,348	-	2	14
Minn.	8	-	19	-	20	50	32	-	782	-	14	48	-	-	1
Iowa	8	-	-	-	-	134	5	1	462	-	58	19	-	1	1
Mo.	8	-	188	-	1	32	36	-	38	1	40	24	-	-	1
N. Dak.	-	-	1	-	-	25	1	-	6	-	14	6	-	-	-
S. Dak.	-	-	-	-	-	-	3	-	90	-	3	14	-	-	-
Nebr.	5	-	-	-	-	1	7	1	5	-	1	10	-	-	-
Kans.	1	-	-	-	1	96	32	4	63	1	18	1,227	-	1	10
S. ATLANTIC	146	-	165	-	13	874	461	5	332	5	321	785	-	18	12
Dal.	3	-	32	-	-	1	7	-	-	-	5	227	-	2	-
Md.	35	-	9	-	2	35	50	2	45	4	23	166	-	3	1
D.C.	21	-	-	-	1	2	11	-	1	-	-	-	-	1	-
Va.	26	-	1	-	-	60	70	2	88	-	55	56	-	1	-
W. Va.	2	-	-	-	-	2	6	-	41	-	50	28	-	-	-
N.C.	13	-	2	-	4	4	53	1	31	1	123	86	-	1	-
S.C.	6	-	2	-	-	301	41	-	21	-	-	19	-	-	-
Ga.	6	-	9	-	1	93	91	-	40	-	23	136	-	2	-
Fla.	34	-	110	-	5	376	132	-	65	-	42	71	-	8	11
E.S. CENTRAL	15	-	5	-	3	70	154	-	1,514	-	47	49	-	3	4
Ky.	3	-	-	-	-	6	29	-	273	-	2	5	-	2	4
Tenn.	1	-	-	-	-	58	71	-	1,177	-	15	19	-	1	-
Ala.	5	-	1	-	3	2	45	-	63	-	24	25	-	-	-
Miss.	6	-	4	-	-	6	9	N	N	-	8	1	-	-	-
W.S. CENTRAL	56	-	444	-	4	723	193	22	1,336	-	312	254	-	12	73
Ark.	1	-	-	-	-	283	21	1	294	-	13	20	-	2	1
La.	1	-	-	-	-	4	24	18	707	-	50	16	-	-	-
Okla.	5	-	3	-	1	39	29	N	N	-	171	129	-	6	-
Tex.	49	-	441	-	3	397	119	3	319	-	78	89	-	4	72
MOUNTAIN	42	-	480	-	19	330	92	6	289	2	219	262	1	26	24
Mont.	-	-	127	-	1	8	4	-	9	-	7	20	-	6	2
Idaho	3	-	-	-	-	1	1	-	7	-	75	51	-	1	-
Wyo.	2	-	-	-	2	-	-	-	-	-	5	4	-	1	1
Colo.	13	-	5	-	4	10	34	1	34	2	70	66	-	-	1
N. Mex.	2	-	311	-	9	38	7	N	N	-	12	29	-	-	-
Ariz.	19	-	35	-	1	258	27	5	191	-	38	65	-	5	2
Utah	1	-	-	-	1	13	10	-	12	-	12	43	1	11	15
Nev.	3	-	2	-	1	2	4	-	6	-	-	4	-	-	3
PACIFIC	360	8	848	-	116	671	764	9	480	10	660	817	-	216	262
Wash.	27	-	34	-	13	176	80	3	89	1	89	156	-	2	17
Oreg.	6	-	22	-	81	13	37	N	N	1	84	16	-	2	4
Calif.	321	8	792	-	17	453	629	6	386	6	234	307	-	140	236
Alaska	3	-	-	-	-	-	8	-	7	-	5	5	-	2	-
Hawaii	3	-	-	-	4	29	10	-	18	2	238	34	-	70	6
Guam	-	-	2	-	-	5	6	-	5	-	-	-	-	1	4
P.R.	1	-	771	-	-	44	5	-	13	-	20	19	-	3	62
V.I.	-	-	-	-	-	-	-	-	21	-	-	-	-	1	2
Pac. Trust Terr.	-	-	1	-	-	-	1	-	5	-	1	-	-	1	4
Amer. Samoa	-	-	2	-	-	2	-	-	7	-	-	-	-	-	-

*For measles only, imported cases include both out-of-state and international importations.

N: Not notifiable U: Unavailable I: International O: Out-of-state

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending December 26, 1987 and December 20, 1986 (51st Week)

Reporting Area	Syphilis (Civilian) (Primary & Secondary)		Toxic- shock Syndrome	Tuberculosis		Tula- ramia	Typhoid Fever	Typhus Fever (Trist-borne) (RMSF)	Rabies, Animal
	Cum. 1987	Cum. 1986	1987	Cum. 1987	Cum. 1986	Cum. 1987	Cum. 1987	Cum. 1987	Cum. 1987
UNITED STATES	34,834	26,818	11	21,083	21,825	186	342	590	4,458
NEW ENGLAND	540	479	1	546	661	1	33	8	7
Maine	1	19	-	26	34	-	2	-	3
N.H.	5	13	-	16	32	-	-	-	-
Vt.	4	9	-	16	17	-	1	-	-
Mass.	303	263	1	361	379	1	19	4	-
R.I.	12	19	-	61	48	-	3	-	1
Conn.	315	156	-	182	171	-	8	4	3
MID. ATLANTIC	6,208	3,624	1	3,940	4,209	1	45	26	392
Upstate N.Y.	248	190	1	510	612	1	10	11	54
N.Y. City	4,584	2,184	-	2,001	2,191	-	14	5	-
N.J.	707	667	-	680	715	-	21	1	15
Pa.	669	793	-	739	691	-	-	9	323
E.N. CENTRAL	839	624	1	2,311	2,518	3	36	37	180
Ohio	105	125	1	437	453	1	11	21	14
Ind.	67	100	-	246	269	-	5	1	17
Ill.	421	370	-	1,018	1,086	-	12	7	45
Mich.	187	179	-	517	592	-	5	5	28
Wis.	59	42	-	93	106	2	3	3	46
W.N. CENTRAL	180	207	2	696	631	57	11	54	935
Minn.	23	33	1	118	150	-	5	-	232
Iowa	27	9	-	39	46	4	2	1	263
Mo.	79	107	-	319	310	41	3	19	56
N. Dak.	1	6	-	14	10	1	-	-	106
S. Dak.	11	9	-	24	29	9	-	1	218
Nebr.	19	12	1	25	18	4	-	3	16
Kans.	20	31	-	57	66	8	1	30	41
S. ATLANTIC	12,252	8,140	-	4,556	4,394	5	37	226	1,296
Del.	70	60	-	41	52	-	-	2	-
Md.	624	462	-	422	366	-	4	46	438
D.C.	411	293	-	154	160	-	3	-	43
Va.	321	326	-	424	378	2	10	22	361
W. Va.	13	20	-	99	125	-	1	7	77
N.C.	711	528	-	600	659	2	3	82	8
S.C.	668	695	-	460	569	-	-	36	59
Ge.	1,650	1,478	-	812	741	-	2	30	203
Fla.	7,784	4,278	-	1,544	1,404	-	14	3	106
E.S. CENTRAL	1,855	1,737	1	1,911	1,918	8	4	98	303
Ky.	29	66	1	402	438	3	2	13	135
Tenn.	730	613	-	631	677	1	1	58	81
Ala.	490	514	-	541	586	1	1	15	80
Miss.	606	542	-	337	317	3	-	12	7
W.S. CENTRAL	4,315	5,252	-	2,432	2,780	73	30	119	594
Ark.	252	254	-	289	381	39	2	12	123
La.	789	915	-	316	391	3	-	-	13
Okla.	181	150	-	236	251	28	4	88	33
Tex.	3,063	3,933	-	1,591	1,747	3	24	19	425
MOUNTAIN	708	615	2	637	548	16	16	16	362
Mont.	9	7	-	18	27	2	-	11	167
Idaho	6	16	-	28	27	1	-	-	9
Wyo.	3	4	-	-	-	-	-	1	74
Colo.	123	136	-	66	81	5	-	3	7
N. Mex.	58	66	-	98	102	1	11	-	3
Ariz.	295	251	-	209	242	3	4	-	81
Utah	27	19	2	25	31	2	-	1	7
Nev.	188	114	-	34	41	2	1	-	14
PACIFIC	7,836	5,740	3	4,164	3,945	12	130	4	420
Wash.	153	106	-	243	212	4	9	-	-
Oreg.	303	121	-	128	121	6	3	1	-
Calif.	7,386	5,415	3	3,534	3,272	2	110	3	412
Alaska	4	2	-	67	66	1	-	-	8
Hawaii	18	34	-	152	178	-	8	-	-
Guam	2	1	-	26	35	-	-	-	-
P.R.	879	849	-	303	340	-	-	-	67
V.I.	10	1	-	2	1	-	-	-	-
Pac. Trust Terr.	222	314	-	154	97	-	20	-	-
Amer. Samoa	2	1	-	4	5	-	1	-	-

U: Unavailable

TABLE IV. Deaths in 121 U.S. cities,* week ending
December 26, 1987 (51st Week)

Reporting Area	All Causes, By Age (Years)						P&I**	Total	Reporting Area	All Causes, By Age (Years)						P&I**	Total
	All Ages	>65	45-64	25-44	1-24	<1				All Ages	>65	45-64	25-44	1-24	<1		
NEW ENGLAND	618	441	112	38	11	16	52		S. ATLANTIC	1,252	771	293	115	42	31	46	
Boston, Mass.	163	101	37	15	2	8	18		Atlanta, Ga.	137	71	46	12	7	1	4	
Bridgeport, Conn.	57	42	13	1	-	1	3		Baltimore, Md.	274	166	58	23	14	11	7	
Cambridge, Mass.	28	23	3	2	-	-	8		Charlotte, N.C.	48	35	10	2	1	-	1	
Fall River, Mass.	23	17	3	2	1	-	1		Jacksonville, Fla.	75	48	18	6	3	-	3	
Hartford, Conn.	40	29	6	2	2	1	1		Miami, Fla.	146	76	41	19	5	5	1	
Lowell, Mass.	20	12	4	2	1	-	2		Norfolk, Va.	51	32	10	5	2	2	4	
Lynn, Mass.	11	9	2	-	-	-	-		Richmond, Va.	86	58	19	9	-	-	6	
New Bedford, Mass.	28	25	3	-	-	-	-		Savannah, Ga.	32	16	9	1	2	4	2	
New Haven, Conn.	57	41	8	5	3	-	4		St. Petersburg, Fla.	87	71	10	3	2	1	6	
Providence, R.I.	52	38	10	2	-	2	3		Tampa, Fla.	70	46	11	7	-	1	5	
Somerville, Mass.	13	9	2	2	-	-	-		Washington, D.C.	216	122	60	27	5	2	5	
Springfield, Mass.	34	23	7	3	1	-	2		Wilmington, Del.	30	28	1	1	-	-	3	
Waterbury, Conn.	45	32	10	2	1	-	4		E.S. CENTRAL	574	360	122	31	15	16	40	
Worcester, Mass.	47	40	4	-	-	-	3	5	Birmingham, Ala.	89	67	16	4	1	1	4	
MID. ATLANTIC	2,494	1,656	502	235	55	43	116		Chattanooga, Tenn.	37	24	10	2	1	-	2	
Albany, N.Y.	43	32	7	2	2	-	2		Knoxville, Tenn.	71	46	15	4	1	5	4	
Allentown, Pa.	21	19	1	1	-	-	-		Louisville, Ky.	118	78	28	5	4	3	9	
Buffalo, N.Y.	81	60	9	8	1	2	3		Memphis, Tenn.	123	84	20	7	6	6	8	
Camden, N.J.	34	28	4	1	1	-	1		Mobile, Ala.	33	28	5	-	-	-	4	
Elizabeth, N.J.	6	5	-	1	-	-	-		Montgomery, Ala.	30	19	8	1	2	-	4	
Erie, Pa.	36	28	3	4	1	-	6		Nashville, Tenn.	73	44	20	8	-	-	1	5
Jersey City, N.J.	39	26	9	3	1	-	1		W.S. CENTRAL	1,220	784	262	110	31	53	61	
N.Y. City, N.Y.	1,407	908	286	162	27	24	56		Austin, Tex.	64	43	12	3	-	-	6	4
Newark, N.J.	70	31	19	15	5	-	-		Baton Rouge, La.	41	26	8	3	1	3	9	
Paterson, N.J.	32	22	6	2	2	-	-		Corpus Christi, Tex.	47	33	10	2	1	1	1	
Philadelphia, Pa.	300	191	75	19	5	10	16		Dallas, Tex.	193	106	44	26	8	9	7	
Pittsburgh, Pa.	65	44	14	3	1	2	1		El Paso, Tex.	52	38	13	2	-	-	1	2
Reading, Pa.	41	25	10	2	-	-	2		Fort Worth, Tex.	101	65	23	9	2	2	3	
Rochester, N.Y.	93	68	18	5	1	8	7		Houston, Tex.	308	176	74	34	13	11	7	
Schenectady, N.Y.	27	18	6	2	1	-	2		Little Rock, Ark.	50	38	6	3	-	-	3	5
Scranton, Pa.	24	17	6	-	1	-	2		New Orleans, La.	60	38	10	9	1	2	3	
Syracuse, N.Y.	100	72	20	4	3	1	6		San Antonio, Tex.	175	118	38	9	3	7	21	
Trenton, N.J.	26	22	4	-	-	-	1		Shreveport, La.	58	35	11	5	1	6	3	
Utica, N.Y.	23	20	2	1	-	-	2		Tulsa, Okla.	71	50	13	5	1	2	5	
Yonkers, N.Y.	28	22	3	-	-	-	1	3	MOUNTAIN	531	364	103	35	14	15	35	
E.N. CENTRAL	2,100	1,378	482	145	42	73	83		Albuquerque, N. Mex.	41	22	10	5	3	1	2	
Akron, Ohio	60	40	14	3	1	2	2		Colo. Springs, Colo.	32	25	5	2	-	-	4	
Canton, Ohio	37	25	8	3	-	-	1		Denver, Colo.	118	81	20	10	3	4	8	
Chicago, Ill.	584	362	125	45	10	22	16		Las Vegas, Nev.	95	62	25	6	1	1	8	
Cincinnati, Ohio	134	94	34	4	2	-	9		Ogden, Utah	16	13	3	-	-	-	2	
Cleveland, Ohio	179	99	47	21	5	7	4		Phoenix, Ariz.	62	40	11	7	3	1	3	
Columbus, Ohio	141	94	28	12	3	4	3		Pueblo, Colo.	26	21	5	-	-	-	2	
Dayton, Ohio	89	62	20	4	1	2	4		Salt Lake City, Utah	52	32	7	3	2	8	3	
Detroit, Mich.	163	88	38	26	5	5	2		Tucson, Ariz.	69	68	17	2	2	-	9	
Evansville, Ind.	40	33	7	-	-	-	2		PACIFIC	1,733	1,204	301	122	94	40	96	
Fort Wayne, Ind.	44	35	8	1	-	-	3		Berkeley, Calif.	22	17	3	-	-	-	2	
Gary, Ind.	18	11	5	2	-	-	2		Fresno, Calif.	50	42	5	3	7	3	3	
Grand Rapids, Mich.	64	43	12	1	4	3	2		Glendale, Calif.	25	20	4	1	-	-	3	
Indianapolis, Ind.	198	133	33	4	7	9	6		Honolulu, Hawaii	62	40	17	3	-	-	2	1
Madison, Wis.	43	25	9	5	1	3	3		Long Beach, Calif.	76	67	7	1	-	1	10	
Milwaukee, Wis.	119	87	20	4	1	7	9		Los Angeles, Calif.	382	243	61	47	17	2	9	
Peoria, Ill.	41	29	7	1	-	-	4		Oakland, Calif.	71	51	14	4	1	1	5	
Rockford, Ill.	53	33	13	4	-	-	3		Pasadena, Calif.	27	21	6	-	-	-	2	
South Bend, Ind.	62	40	16	3	2	1	4		Portland, Oreg.	143	106	22	8	3	7	15	
Tulsa, Okla.	16	11	3	1	-	-	1		Sacramento, Calif.	155	100	27	15	6	7	15	
Youngstown, Ohio	47	34	11	2	-	-	1		San Diego, Calif.	168	117	33	9	5	4	18	
W.N. CENTRAL	862	603	173	44	17	25	43		San Francisco, Calif.	142	96	23	15	2	6	3	
Des Moines, Iowa	80	63	13	4	-	-	5		San Jose, Calif.	180	124	41	7	4	4	12	
Duluth, Minn.	30	21	6	2	-	-	-		Seattle, Wash.	146	102	27	8	6	3	3	
Kansas City, Kans.	44	31	9	1	1	2	-		Spokane, Wash.	43	31	8	1	1	2	6	
Kansas City, Mo.	126	80	26	6	2	2	4		Tacoma, Wash.	31	27	3	-	-	-	1	3
Lancaster, Neb.	27	21	4	1	-	-	1		TOTAL	11,384**	7,573	2,330	875	281	312	572	
Minneapolis, Minn.	182	127	30	12	6	7	14										
Omaha, Neb.	82	55	18	7	2	-	5										
St. Louis, Mo.	105	105	38	8	5	9	9										
St. Paul, Minn.	60	46	10	1	1	2	1										
Wichita, Kans.	66	44	19	2	-	1	4										

*Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.

**Pneumonia and influenza.

†Because of changes in reporting methods in these 3 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 5 weeks.

††Total includes unknown ages.

‡Data not available. Figures are estimates based on average of past 4 weeks.

FIGURE I. Reported measles cases — United States, Weeks 46-49, 1987

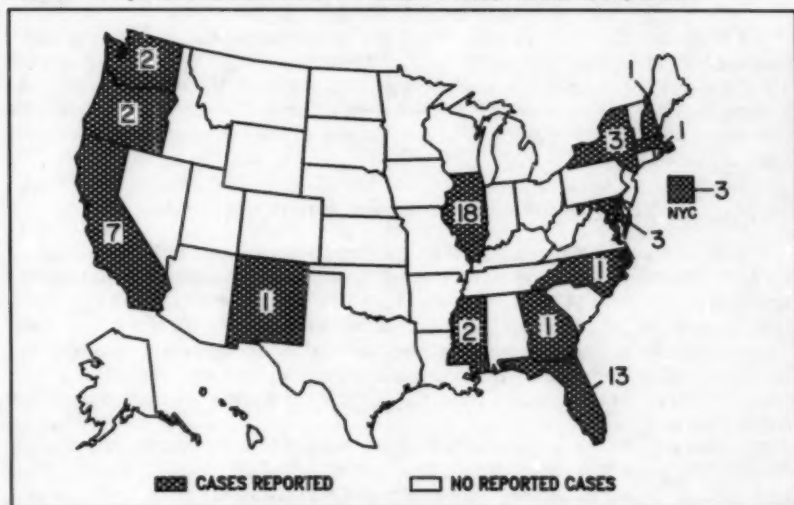


FIGURE I. Reported measles cases — United States, Weeks 47-50, 1987



Notices to Readers — Continued

***Haemophilus influenzae* Type b Vaccine**

On December 22, 1987, the U.S. Food and Drug Administration licensed a new *Haemophilus influenzae* type b (Hib) vaccine for use in children 18 months of age and older. The manufacturer is expected to begin distribution of the Hib polysaccharide-diphtheria conjugate vaccine within a few weeks. The Immunization Practices Advisory Committee (ACIP) recommendations for use of the vaccine will be published soon in the MMWR.

Third National Environmental Health Conference

The Third National Environmental Health Conference, cosponsored by the Center for Environmental Health and Injury Control, CDC; the Agency for Toxic Substances and Disease Registry (ATSDR); and the Association of State and Territorial Health Officials, will be held February 1-4, 1988, at the New Orleans Hilton Riverside and Towers Hotel, New Orleans, Louisiana. The theme of the conference is "Environmental Public Health: Approaches to Human Hazard Assessment," and the goal is to plan future directions of coordinated state, CDC, and ATSDR activities in environmental public health.

Registration information is available from Associate Consultants, Inc., 1726 M Street, NW, Suite 600, Washington, D.C. 20036, telephone (202) 737-8062. Hotel reservations should be made directly with the New Orleans Hilton Riverside and Towers Hotel, telephone (504) 561-0500, before January 8.

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